

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
FORD 600 (S/N 1FM5K8D88HGC62653)

Component
Gasoline Engine

Fluid
PETRO CANADA SUPREME 5W20 MOTOR OIL (6 GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Elemental level of silicon (Si) above normal.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0100381	PCA0097973	---
Sample Date	Client Info		03 Aug 2023	19 Jun 2023	---
Machine Age	mls	Client Info	124101	120784	---
Oil Age	mls	Client Info	3317	8125	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	4	8	---
Chromium	ppm	ASTM D5185m >20	0	<1	---
Nickel	ppm	ASTM D5185m >5	<1	<1	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >40	2	3	---
Lead	ppm	ASTM D5185m >50	<1	0	---
Copper	ppm	ASTM D5185m >155	2	4	---
Tin	ppm	ASTM D5185m >10	0	0	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 183	58	40	---
Barium	ppm	ASTM D5185m 0	2	0	---
Molybdenum	ppm	ASTM D5185m 36	69	64	---
Manganese	ppm	ASTM D5185m 0	<1	<1	---
Magnesium	ppm	ASTM D5185m 417	525	499	---
Calcium	ppm	ASTM D5185m 1318	1275	1308	---
Phosphorus	ppm	ASTM D5185m 773	716	659	---
Zinc	ppm	ASTM D5185m 845	838	783	---
Sulfur	ppm	ASTM D5185m 2690	2976	3096	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	▲ 32	▲ 50	---
Sodium	ppm	ASTM D5185m >400	5	13	---
Potassium	ppm	ASTM D5185m >20	1	0	---

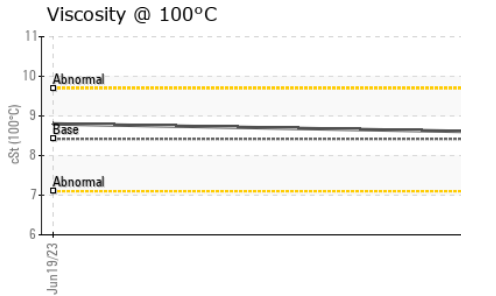
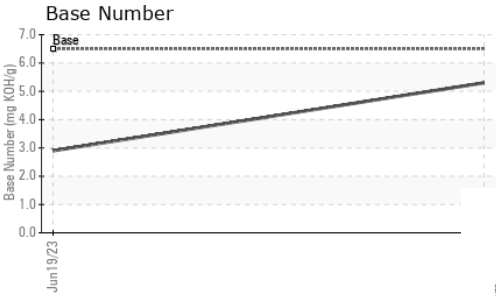
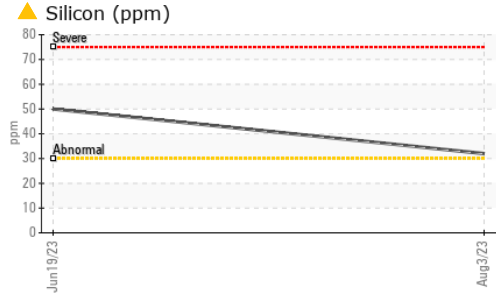
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.1	---
Nitration	Abs/cm	*ASTM D7624 >20	8.7	10.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.5	25.0	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.7	20.2	---
Base Number (BN)	mg KOH/g	ASTM D2896 6.5	5.3	2.9	---

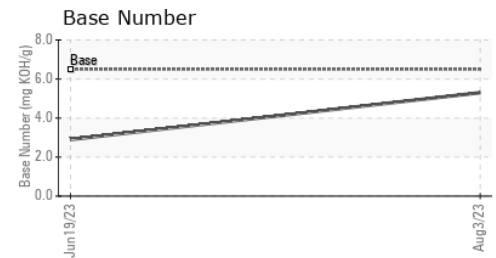
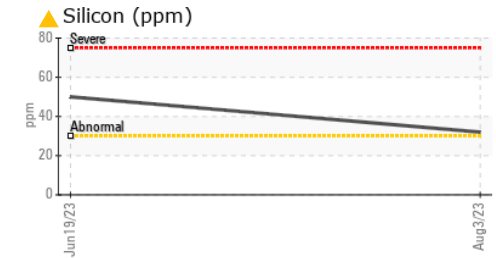
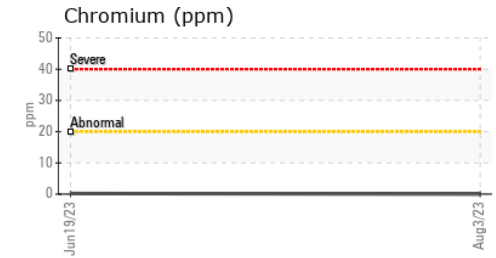
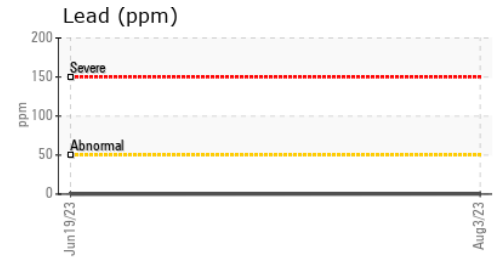
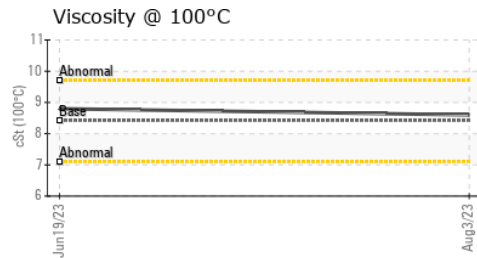
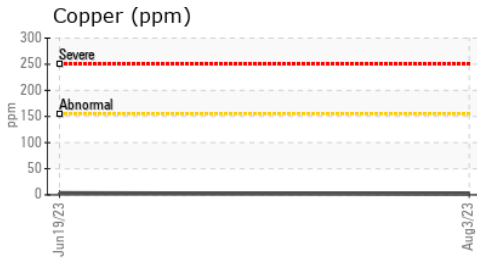
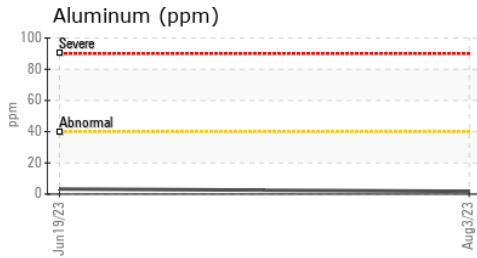
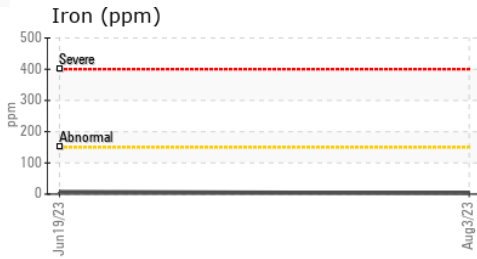
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	8.42	8.6	8.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100381 **Received** : 28 Aug 2023
Lab Number : 05936582 **Diagnosed** : 29 Aug 2023
Unique Number : 10621853 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

VILLAGE OF NORTH RIVERSIDE
 2345 S DESPLAINES
 NORTH RIVERSIDE, IL
 US 60546
 Contact: Service Manager
 vznrpdw@gmail.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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